

CLAIMS:-

1. A modular printhead for a digital printer, the modular printhead including:
a support frame and a plurality of printhead modules, the frame having a plurality of mounting sites for mounting respective printhead modules to the frame; wherein,
5 at least one of the mounting sites has an adjustment mechanism for reducing input movements to effect minute adjustments of the position of the printhead module with respect to the frame.
2. A modular printhead according to claim 1 wherein the adjustment mechanism
10 includes at least one levers and at least one pivot for geared reduction of the input movements to minute adjustments of the printhead module relative to the frame
3. A modular printhead according to claim 2 wherein the at least one mounting sites includes:
15 a module engagement plate upon which the printhead module is mounted, the module engagement plate being connected to the support frame by flexible arms, said flexible arms constraining said plate to substantially linear movement relative to the frame; and
an adjustment mechanism, the adjustment mechanism including:
20 a lever arm pivotally attached to the frame and also attached to said plate remote from an effective fulcrum wherein pivotal movement of the lever arm causes movement of said plate; and
a movable member in engagement with the lever arm causing said pivotal movement of the lever arm.
- 25 4. A modular printhead according to claim 3 wherein the ratio of movement of the movable member to the movement of the module engagement plate is at least 500 to 1.
5. A modular printhead according to claim 3 wherein the movement of the
30 printhead module relative to the frame is less than 100 μm .
6. A modular printhead according to claim 3 wherein the movement of the lever arm is substantially normal to the movement of the engagement plate.

7. A modular printhead according to claim 3 wherein the movable member is a grub screw that actuates the lever arm for each respective adjustment mechanism, said screw being threadedly engaged with the support frame.
- 5 8. A modular printhead according to claim 7 wherein the ratio of axial movement of the respective grub screw to the movement of its respective module engagement plate is about 1000 to 1.
9. A modular printhead according to claim 3 wherein the adjustment mechanism is
10 integrally formed in the frame with the respective flexible arms having localized necks formed at each end allowing constrained movement of the respective module engagement plate.
10. A modular printhead according to claim 3 wherein the lever arm is integrally
15 formed in the frame, said lever arm having at least one localized neck formed with said plate remote from the effective fulcrum.